

United States Patent and Trademark Office

an

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/755,244	01/10/2004	John M. Brookfield	A3184Q1-US-NP	9652	
7590 01/10/2007 Patent Documentation Center Xerox Corporation Xerox Square 20th Floor 100 Clinton Ave. S.			EXAMINER FIDLER, SHELBY LEE		
					ART UNIT
				Rochester, NY 14644	
SHORTENED STATUTO	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE	
3 MONTHS		01/10/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/755,244	BROOKFIELD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Shelby Fidler	2861			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status		•			
1)	action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-11 and 20 is/are pending in the apple 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-11 is/are allowed. 6) ☐ Claim(s) 20 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on 10 January 2004 is/are: Applicant may not request that any objection to the concept that the content drawing sheet(s) including the correction of the content that t	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

Application/Control Number: 10/755,244

Art Unit: 2861

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 20 is rejected under 35 U.S.C. 102(b) as being anticipated by Usui et al. (US 6033058).

Regarding claim 20:

Usui et al. disclose a drop emitting device comprising:

a first linear array (50) of columnar arrays of first nozzle pairs (53a and 54a), the first linear array extending along an X-axis (for the purpose of examination, "X-axis" is read as the horizontal axis in Fig. 8) and the columnar arrays of the first nozzles extending obliquely to the X-axis (Fig. 8);

wherein the nozzles of each first nozzle pair are aligned along the X-axis (Fig. 8);

wherein one nozzle of each first nozzle pair emits drops of a first color and another nozzle of each first nozzle pair emits drops of a second color different from the first color (col. 6, lines 4-9 and col. 5, lines 45-51 and Fig. 8);

a second linear array (62) of columnar arrays of second nozzle pairs (60a and 61a); the second linear array extending along the X-axis (Fig. 8) and the columnar arrays of second nozzles extending obliquely to the X-axis (Fig. 8);

Application/Control Number: 10/755,244

Art Unit: 2861

wherein the nozzles of each second nozzle pair (60a, 61a) are offset along the X-axis (Fig. 8);

wherein one nozzle of each second nozzle pair emits drops of a third color and another nozzle of each second nozzle pair emits drops of a fourth color (both emit black; col. 5, lines 57 - col. 6, line 9);

wherein the first linear array and the second linear array extend along an X-axis (Fig. 8), and wherein the second linear array is adjacent the first linear array such that each first nozzle pair has an associated second nozzle pair displaced therefrom along a Y-axis that is orthogonal to the X-axis (Fig. 8).

Allowable Subject Matter

Claims 1-11 are allowed.

Please see prosecution history for reasons for allowance.

Response to Arguments

Applicant's arguments with respect to claim 20 have been considered but are moot in view of the new ground(s) of rejection. Please see the above rejection to Usui et al. which discloses nozzles of each first nozzle pair aligned along the X-axis and nozzles of each second nozzle pair offset along the X-axis.

Application/Control Number: 10/755,244

Art Unit: 2861

Communication with the USPTO

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shelby Fidler whose telephone number is (571) 272-8455. The

examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you

would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Shelly 2. Feller 1/4/2007

Shelby Fidler Patent Examiner

AU 2861

SUPERVISORY PATENT EXAMINER

Page 4